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NOTICE OF ALLOWANCE AND FEE(S) DUE

23696 7590 09/23/2008

QUALCOMM INCORPORATED

5775 MOREHOUSE DR.

SAN DIEGO, CA 92121

EXAMINER

DEPPE, BETSY LEE

ART UNIT PAPER NUMBER

2611

DATE MAILED: 09/23/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/816 999	04/02/2004	Hakan Inanoglu	040129	1096	

TITLE OF INVENTION: CALIBRATION OF TRANSMIT AND RECEIVE CHAINS IN A MIMO COMMUNICATION SYSTEM

 APPLY. TYPE
 SMALL ENTITY
 ISSUE FEE DUT
 PUBLICATION FEE DUT
 PREV. PAID ISSUE FEE
 TOTAL FEE(S) DUT
 DATE DUT

 nonprovisional
 NO
 \$1440
 \$300
 \$0
 \$1740
 12/23/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includir ed below or directed oth	or transmitting the 188 ig the Patent, advance of herwise in Block 1, by	orders and notification of a (a) specifying a new corres	naintenance fees wi pondence address;	ll be and/or	mailed to the current (b) indicating a sepa	correspon trate "FEE	dence address as ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
QUALCOMM 5775 MOREHO SAN DIEGO, C.				Conti	Gente	of Mailing or Trans i) Transmittal is being ficient postage for fire ISSUE FEE address I) 273-2885, on the d	mission	
								(Depositor's name)
			<u> </u>					(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.		CONFIR	RMATION NO.
10/816,999 TITLE OF INVENTION	10/816,999 04/02/2004 TITLE OF INVENTION: CALIBRATION OF TRANSMIT AND REC		Hakan Inanoglu IVE CHAINS IN A MIMO			1986		
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APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO	\$1440	\$300	\$0		\$1740	1	12/23/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS	JBCLASS				
DEPPE, BI		2611 375-295000						
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTOSB/122) attached. The Address Findication (or "Fee Address" Indication form PTOSB/47; Rev 0.3-02 or more recent) attached. Use of a Customer Number is required.			or agents OR, alternati (2) the name of a single registered attorney or a 2 registered patent atto	the names of up to 3 registered patent attorneys [Interpretation of a single firm flaving as a member a [Interpretation of a single firm fla				
	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assigner eletion of this form is NO	THE PATENT (print or type data will appear on the pDT a substitute for filing an (B) RESIDENCE: (CITY wrinted on the patent):	atent. If an assigne assignment. and STATE OR CO	DUNT			
4a. The following fee(s): Issue Fee Publication Fee (N	o small entity discount p		th. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038	is atta	ched.		
	s SMALL ENTITY state	as. See 37 CFR 1.27.	b. Applicant is no lon					
NOTE: The Issue Fee and interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accept ites Patent and Trademar	ed from anyone other than t k Office.	he applicant; a regis	tered a	ittorney or agent; or th	ne assignee	or other party in
Authorized Signature				Date				
Typed or printed name				Registration No				
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 d application form to the ons for reducing this but firginia 22313-1450. DC 13-1450.	CFR 1.311. The informat U.S.C. 122 and 37 CFR USPTO. Time will var rden, should be sent to to O NOT SEND FEES OR	ion is required to obtain or a 1.14. This collection is est y depending upon the indivine Chief Information Office COMPLETED FORMS To	etain a benefit by th imated to take 12 m idual case. Any con er, U.S. Patent and T D THIS ADDRESS.	e publ inutes nment Traden SENI	ic which is to file (and to complete, includir s on the amount of ti- nark Office, U.S. Dep D TO: Commissioner	by the US g gatherin me you rec artment of for Patents	SPTO to process) g, preparing, and quire to complete Commerce, P.O. s, P.O. Box 1450,

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5775 MOREHOUSE DR.			ART UNIT PAPER NUMBI		
SAN DIEGO, CA 92121			2611		

DATE MAILED: 09/23/2008

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 906 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 906 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)
10/816,999	INANOGLU, HAKAN
Examiner	Art Unit

	Betsy L. Deppe 2611
All claims being allowable, PROSECUTION ON THE MERTS 1S (herewith (or previously mailed), a Notice of Allowance (PTOL-85) o NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIG of the Office or upon petition by the applicant. See 37 CFR 1.313 a	or other appropriate communication will be mailed in due course. THIS SHTS. This application is subject to withdrawal from issue at the initiative and MPEP 1308.
 1. \infty This communication is responsive to the response filed 6/11 	<u>/08</u> .
2. ☑ The allowed claim(s) is/are <u>1-32</u> .	
International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONME THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitt INFORMAL PATENT APPLICATION (PTO-152) which gives 5. CORRECTED DRAWNINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftsperso 1) hereto or 2) to Paper No-/Mail Date (b) including changes required by the attached Examiner's Paper No-/Mail Date	been received. been received in Application No been received in Application No been received in Application In this national stage application from the interest of this communication to file a reply complying with the requirements in the submitted of this application. been submitted. be submitted. be submitted. ch's Patent Drawing Review (PTO-948) attached Amendment / Comment or in the Office action of ch(s) should be written as the drawings in the front (not the back) of the back of the submitted of the Interest of the Inter
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08),	5. Notice of Informal Patent Application 6. Interview Summary (PTO-413), Paper No./Mail Date 7. Examiner's Armendment/Comment 8. Examiner's Statement of Reasons for Allowance 9. Other

Application/Control Number: 10/816,999 Page 2

Art Unit: 2611

EXAMINER'S AMENDMENT

 An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given via voicemail on September 8, 2008 and confirmed in a telephone interview with Ross Franks on September 11, 2008.

- The application has been amended as follows: claim 33 is <u>canceled</u>.
- 3. The following is an examiner's statement of reasons for allowance: prior art of record does not teach or suggests in combination a method for calibrating or an apparatus comprised of the limitations as recited in claim 1, lines 3-15; claim 14, lines 7-20; claim 20, lines 3-8 and 10-15; claim 24, lines 9-13; claim 27, lines 15-20; and claim 30, lines 7-12 in combination with the other recited limitations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/816,999

Art Unit: 2611

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Betsy L. Deppe whose telephone number is (571) 272-3054. The examiner can normally be reached on Monday, Wednesday and Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh M. Fan can be reached on (571) 272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Betsy L. Deppe/ Primary Examiner, Art Unit 2611